



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION I

J.F. KENNEDY FEDERAL BUILDING, BOSTON, MASSACHUSETTS 02203-2211

| | |
|--------|-------------|
| File # | New Bedford |
| Date | 11/5/11 |
| Other | 59814 |

November 7, 1988

Richard J. Hughto
Rizzo Associates
235 West Central Street
Natick, MA 01760

Dear Mr. Hughto:

Pursuant to your request of October 14, 1988, the following response was prepared with the assistance of the U.S. Army Corps of Engineers, New England Division.

A stability analysis of the in-water portion of the CDF dike was performed to determine if construction operations could continue. Both the Spencer Method (circular failure surface) and the Wedge Method were used. A Corps of Engineers program entitled U TEXAS 2 was used to run the analysis.

The following physical data was used in the analysis

- o Actual dike cross section as obtained from a topo survey.
- o Elevation of geotextile was obtained during wick drain installation.
- o Settlement obtained from settlement plates.
- o Pore pressures obtained from piezometers.
- o Shear strength obtained from in-situ vane shear test.

Attachment A provides the data obtained from the vane shear testing (ASTM D 2537-72). The locations are referenced off the CDF plans and specifications which you have previously received under separate cover. Shear strength is obtained by applying two correction factors to the torque value shown. The correction factors are for shape of the instrument and plasticity of the material.

If you have any questions please contact me at (617)
565-3455.

Yours sincerely,

A handwritten signature in cursive script, appearing to read "Alan S. Fowles", is written over the typed name "Charles C. Bering".

Charles C. Bering *for CCB*
Assistant Regional Counsel

Attachment

cc: Mary Ryan
Janine Sweeney
Paul Galvani
Dave McLaughlin
Verne Vance